Name:

*Mr. Tiénou-Gustafson, Mr. Bielmeier*

Geometry, Period

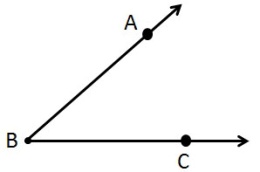
Due Date: Tue, 14 Oct 2014

**Geometry**

**Homework**



***Important Definitions:*** *Copy this into your notebook tonight. (Yes, this is part of your homework!)*

****

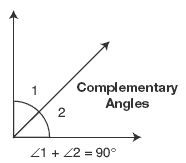
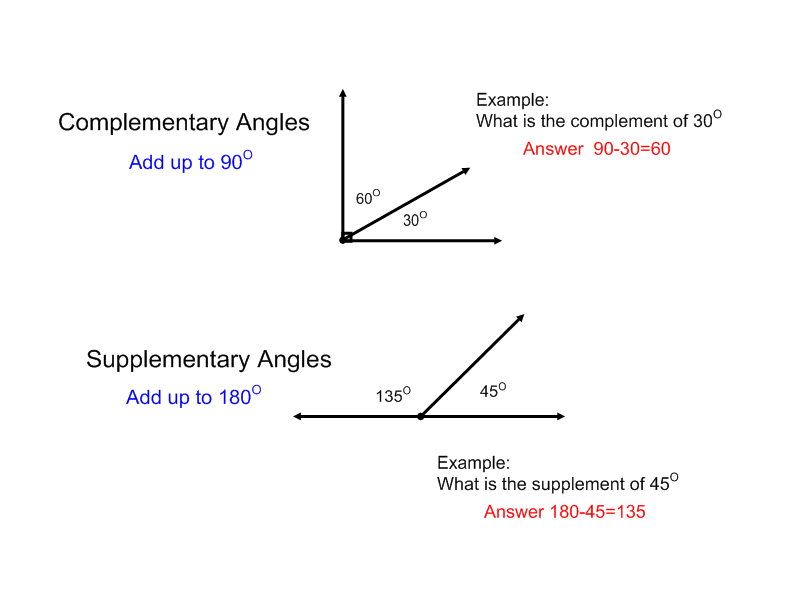
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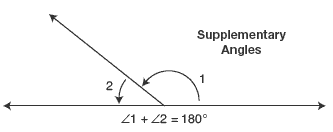
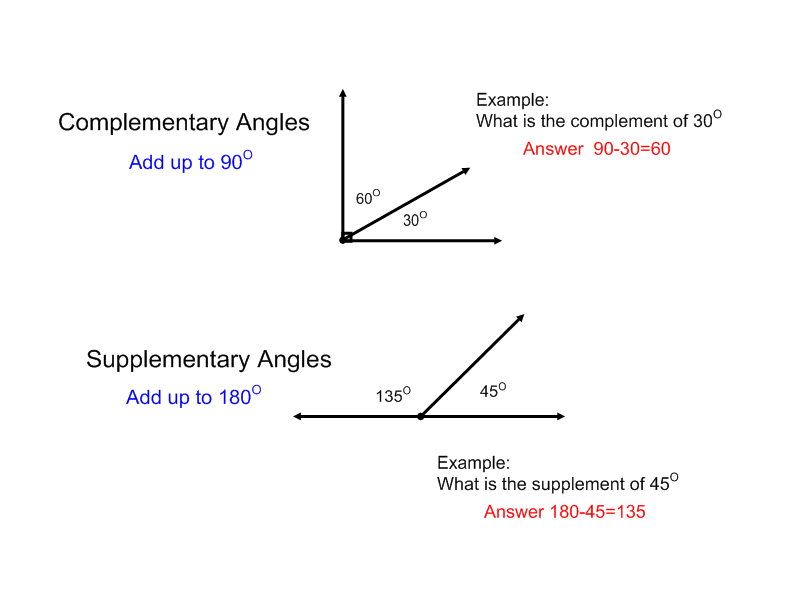
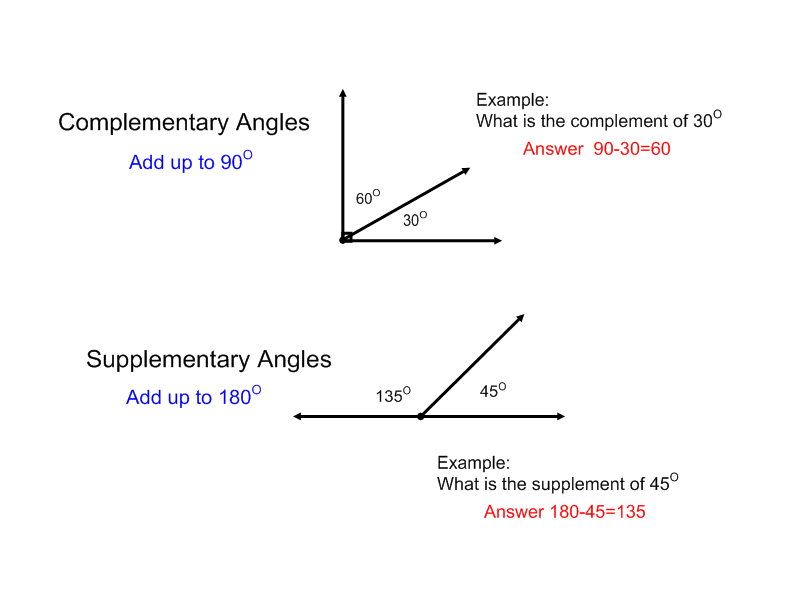
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The middle point is the vertex. **∠ABC** has **vertex B. m∠ABC=40**°

**Angle Relationships**

* **Complementary Angles**: Angles that have a sum of 90° (together make a right angle)



* **Supplementary Angles**: Angles that have a sum of 180° (together make a straight line)





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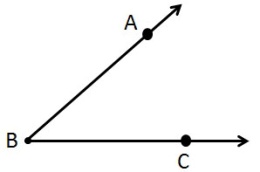
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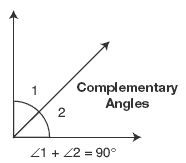
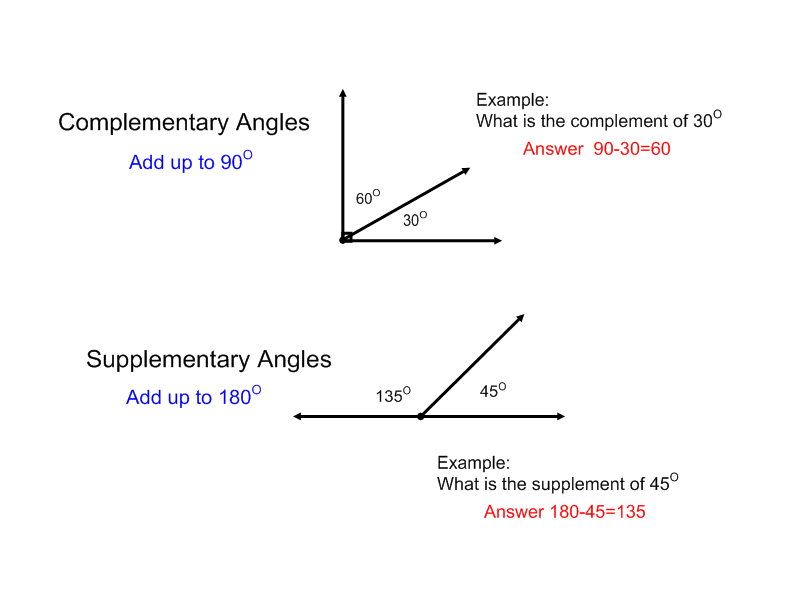
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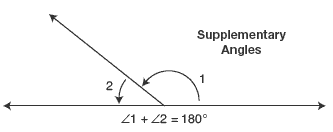
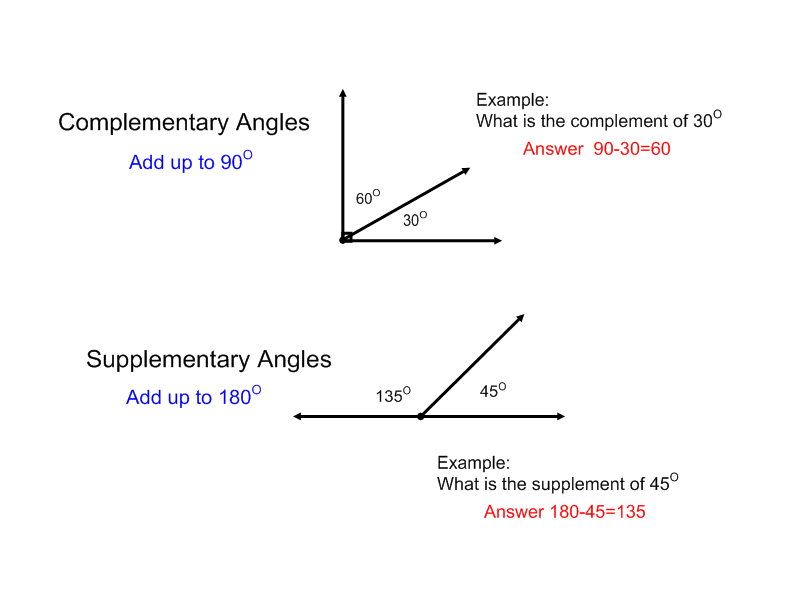
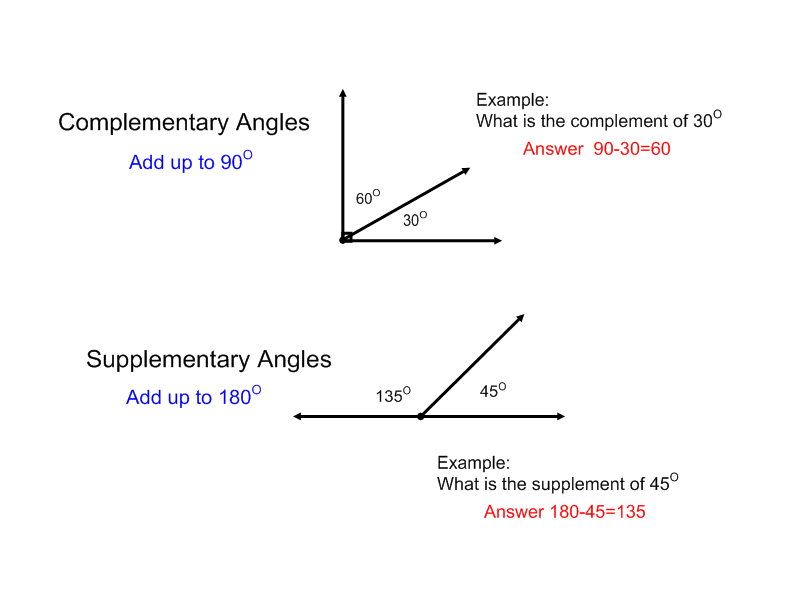
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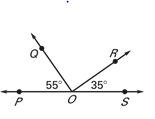
**Angle Relationships**

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**Practice:**

1. In the figure to the right, **∠POQ = 55°** and **∠ROQ = 35°.**
   1. Name a pair of **complementary** angles: **∠\_\_\_\_\_\_\_\_\_\_ and ∠\_\_\_\_\_\_\_\_\_\_\_**
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1. ∠1 and ∠2 are ***complementary*** angles. Given m∠1 (the measure of ∠1), find m∠2. **(Show your work)**

a) m∠1= 52 b) m∠1= 76 c) m∠1=89**°** m∠1=13**°**  
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1. ∠1 and ∠2 are ***supplementary*** angles. Given m∠1, find m∠2. **(Show your work)**

a) m∠1= 147 b) m∠1= 94 c) m∠1=89**°** m∠1=13**°**  
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B

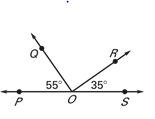
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D

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E

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